are more sensitive than valency stretching oxides. In ...tal ires of polar and non-polar molecules the lines of the non-polar component ...

$TULUB, T.P.$

LAZAREV, A.N.; TULUB, T.P.; BOBOVICH, Ya.S.

Raman spectra of certain alkoxypolysiloxanes. Opt. i spektr. 4
no.3:417-418 Mr '58.

(MIRA 11:4)

1. Gosudarstvennyy opticheskiy institut im. S.I. Vavilova i Institut
khimii silikatov AN SSSR.

(Siloxanes--Spectra)

AUTHORS: Lazarev, A.N., Tulub, T.P. and Bobovich, Ya.S.   51-4-3-28/30

TITLE: Raman Scattering Spectra of Certain Alkoxypolysiloxanes
           (O spektrakh kombinatsionnogo rasseyaniya nekotorykh
           alkoksipolisiloksanov.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Nr.3,
            pp. 417-418 (USSR)

ABSTRACT: Study of the structure of products of hydrolytic
           condensation of esters of orthosilicic acid
           (alkoxypolysiloxanes) is of great interest because
           of many technical applications of silico-organic com-
           pounds.   Such studies may be also useful in eluci-
           dation of the spectra of silicates.   The authors
           obtained photographically and photoelectrically Raman
           scattering spectra for the following compounds:
           $Si(OCH_3)_4$, $(CH_3O)_3SiOSi(OCH_3)_3$, $Si(OC_2H_5)_4$,
           $(C_2H_5O)_3SiOSi(OC_2H_5)_3$, $(C_2H_5O)_3SiOSi(OC_2H_5)_2OSi(OC_2H_5)_3$.
           The measured values of frequencies in cm^{-1}, of the
           relative intensities and the degree of depolarization
           of lines are given in the table on p.417.   To measure
           the intensities and the degree of depolarization of
           lines the photoelectric apparatus described in Ref.1

Card 1/2

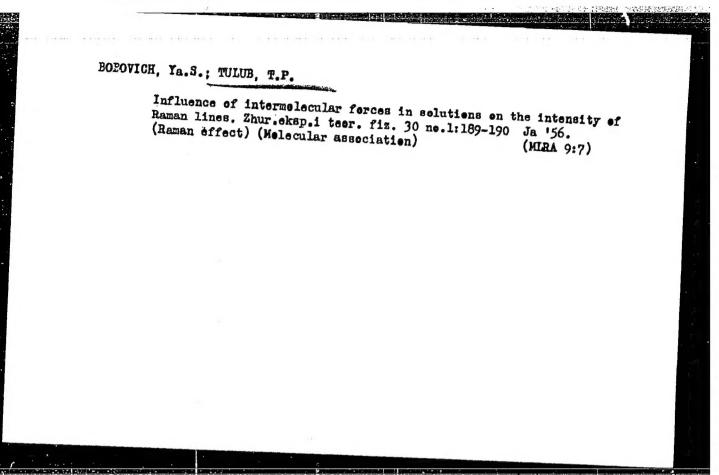Raman Scattering Spectra of Certain Alkoxypolysiloxanes   51- 4 -3-23/30

was used. The figure on p.413 gives, by way of example, the polarized spectra of tetramethoxysilane (curves a) and hexamethoxydisiloxane (curves b). A preliminary brief discussion of the results obtained is given. There are 1 table, 1 figure and 4 references of which 2 are Soviet, 1 French and 1 Swiss.

ASSOCIATION: State Optics Institute imeni S.I. Vavilov; Institute for Silicate Chemistry, Academy of Sciences of the USSR
(Gosudarstvennyy opticheskiy institut im. S.I. Vavilova, Institut khimii silikatov AN SSSR.)

SUBMITTED: July 15, 1957.

1. Orthosilicic acid--Esters   2. Esters--Hydrolytic condensation   3. Alkoxypolysiloxanes--Scattering   4. Raman spectra--Applications

Card 2/2

BOBOVICH, Ya.S.; TULUB, T.P.

Influence of intermolecular forces in solutions on the intensity of
Raman lines. Zhur.eksp.i teor. fiz. 30 no.1:189-190 Ja '56.
(Raman effect) (Molecular association)
(MIRA 9:7)

BOBOVICH, Ya.S., GIRIN, O.P., TULUB, T.P.

A possible interpretation of the vibration spectra of simple silicate glasses. Dokl. AN SSSR 105 no.1:61-64 N '55.   (MLRA 9:3)

1. Predstavleno akademikom A.N. Tereninym.
                (Glass--Spectra)

L 25717-66   EWT(1)/EWT(m)/EWP(e)   WW

ACC NR: AP60C2800   SOURCE CODE: UR/0237/60/000/002/0009/0017

AUTHOR: Bobovich, Ya. S.; Tulub, T. P.

ORG: none

TITLE: Combination scattering as a method for the study of the structure of inorganic glasses

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 2, 1960, 9-17

TOPIC TAGS: IR spectroscopy, combination scattering, chemical bonding, silicate
            glass, molecular structure

ABSTRACT: Using a number of examples, the authors attempt to prove the possibilities
and characteristics of the method of combination scattering, particularly in the case
of silicate systems. A detailed report on the factual material used in this attempt
was published by the authors in an earlier paper (UFN, 66, 1958, p. 3). In order to
study the oscillating movements of the atoms of a molecule, the authors constructed a
N system, using small balls connected by springs with each other. The balls repre-
sent atoms and the springs, elastic forces which act between the atoms. The system N
could accomplish $3N-6$ independent oscillations. Not all these oscillations show up
in the spectra of combination scattering. In order for an oscillation to become
active in scattering, it must be accompanied by changes in the polarizability of a

Card 1/2

L 25717-66

ACC NR: AP6002800

single bond or the entire molecule. In the case of the infra-red spectroscopy method, another value is valid: a change in the dipole moment of the molecule during the oscillation of its atoms. Based on these facts, the authors claim that the scattering intensity characterizes definitely the type of bond. This is true in the case of oscillations of diatomic molecules and individual bonds in polyatomic molecules. The authors conclude that data on the relative intensity of combination scattering bonds is supported by the Pauling electronegative scale. It is possible to assume that further precision measurements of intensity will provide an answer to this important and difficult problem. Orig. art. has: 10 figures.

SUB CODE: 07 / SUBM DATE: 22Sep59/ ORIG REF: 017/ OTH REF: 014

Card 2/2

NEMCHENKO, A.M.; TULUBOVSKAYA, Ye.Ya.

Carrying out large-scale rat extermination with Isachenko's
bacterial culture. Zdrav.Belor. 3 no.10:54-55 O '57.

(MIRA 13:6)

1. Iz Grodnenskoy oblastnoy sanitarno-epidemiologicheskoy
stantsii (glavnyy vrach V.A. Aleksandrovich).
(GRODNO--RATS--EXTERMINATION)

TULUKIDZE, P.

Light concretes with natural aggregates, and their application in bridge
construction and civil and hydraulic engineering. p.173

HIDROTEHNICA. (Asociatia Stintifica a Inginerilor si Tehnicienelor din
Romina) Bucuresti, Romania   Vol. 4, no.6, June 1959

Monthly List of East European Accessions (EEAI)   LC, Vol. 9, no. 2, Feb. 1960

Uncl.

KUZNETSOV, Yevgeniy Semenovich; Prinimali uchastiye: RYTCHENKO, V.I.;
ORLOV, V.P.; RUBETS, D.A.; ZAYATS, T.P.; KUROPTEV, V.T.;
LEYDERMAN, S.R.; NOSOV, L.I.; SOKOLOV, O.V.; TULUKOV, G.A.;
SHIBIN, P.V. LESNYAKOV, F.I., red.; DONSKAYA, G.D., tekhn.red.

[Efficient systems of maintenance and methods for their correction]
Ratsional'nye rezhimy tekhnicheskogo obsluzhivaniia i metodika ikh
korrektirovaniia. Moskva, Avtotransizdat. Pt.2. [Second stage of
motor vehicle maintenance] Vtoroe tekhnicheskoe obsluzhivanie.
1960. 98 p.   (MIRA 14:3)
        (Motor vehicles--Maintenance and repair)

TULUKOVA, K. I.,   SVESHNIKOVA, N. P.,   KOKOVIN, I. L.,   SAKHANTSEVA, T. F.,
TERSKIKH, V. I.

   "Leptospirosis foci on filtration fiedls."   p. 163

Desyatoye Soveshchaniye po parazitologicheskim problemam i
prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference
on Parasitological Problems and Diseases with Natural Foci 22-29
October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences
USSR and Academy of Sciences USSR, No. 1 254pp.

Inst. of Epidemiology and Microbiology, AMS USSR/ Moscow

and the Moscow Oblast Sanitary-Epidemiological Station

TULUKOVA, K.I.

TERSKIKH, V.I.; TULUKOVA, K.I.; SVESHNIKOVA, N.P.

Field mice as carriers of the causative agent of leptospirosis
type II (moniakov) in the vicinity of rivers and flood lands.
Zhur.mikrobiol.epid. i immun. 28 no.4:115-118 Ap '57. (MIRA 10:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gemelei AMN
SSSR i Moskovskoy oblastnoy protivotulyaremiynoy stantsii.
        (LEPTOSPIROSIS, transmission
            by field mice in vicinity of rivers, control)

TULUKOVA, K. I.
    Acad Med Sci USSR.

TULUKOVA, K. I.- "A comparative study of experimentally obtained alkali-producers and B. f
    faecalis alcoligenes." Acad Med Sci USSR. Moscow, 1955.
    (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis' No. 20, 1956

TULUKOVA, K. L.

USSR /Microbiology. General Microbiology.   F-1

Abs Jour: Referat.Zh.-Biol., No. 9, 1957, 35486

Author : Tulukova, K. I.

Title   : A Comparative Study of Experimentally Obtained Alkaline-formers and B. faecalis alcaligenes.

Orig Pub: V sb.: Izmenchivost organismov. M., Medgiz, 1956, 104-112

Abstract: The properties were studied of 21 strains of experimentally obtained alkaline-formers and from 102 strains alkaline-formers which had been isolated from organisms which had been sick with chronic dysentary (99 strains) and from standard strains (3 strains). Attempts to isolate cultures of alkaline-formers in healthy children who did not have a history of intestinal diseases

Card 1/2

USSR /Microbiology. General Microbiology.

Abs Jour: Referat.Zh.-Biol., No. 9, 1957, 35486

F-1

were unsuccessful. Morphological and culture-
biochemical differences in both groups of
alkaline-formers were not noted. Both, the
experimentally obtained and the isolated alkali-
formers had a low virulence; however, the viru-
lence of the latter is a little higher. The
antigen properties of all the strains of both
groups studied were well expressed; the group
of experimentally obtained alkaline-formers in
its antigen properties were uniform. In the 21
strains of isolated alkaline-bearers was shown
the community of the antigen groupings with the
experimentally obtained, and also the presence
of specific groupings. The author proposes that
faecal alkaline-formers could be formed from in-
testinal bacilli and pathogenic intestinal bac-
teria.

Card 2/2

TULUMDZHYAN, A.O.; DZIDZARIYA, G.A., redaktor; KHAKHMIGERI, M.D., tekhnicheskiy redaktor

[Abkhazian Economic Council; catalog of its collection] Ekoso Abkhazii; opisanie fonda. Sukhumi, Abkhazskoe gos.izd-vo, 1956. 29 p.   (MLRA 10:9)

1. Abkhazskiy Ekonomicheskiy Sovet
        (Abkhasia--Economic policy)

1. TULUNIN, B.

2. USSR (600)

4. Grain

7. High yields of grain from the whole seeded area, Kolkh. proizv. 13
No. 2, 1953

9. <u>Monthly List of Russian Accessions</u>, Library of Congress, May 1953. Unclassified.

TULUNIN, B.N.

MININ, Dionisiy Danilovich; TULUNIN, B.N., red.; ZUBRILINA, Z.P., tekhn.red.

[Gathering and storing tree and shrubbery seeds] Sbor i khranenie semian drevesnykh i kustarnikovykh porod. Izd. 3-e, ispr. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957. 103 p.   (MIRA 11:2)
(Seeds)

TULUNIN, Boleslav Nikolayevich; DMITRIYEVA, L.A., red.; YELAGIN, A.S.,
tekhn. red.

[The A B C of feed units] Azbuka kormovykh edinits. Moskva, So-
vetskaia Rossiia, 1962. 124 p. (MIRA 15:?2)
(Feeds)

BRAGINA, Frida Grigor'yevna; NIKITIN, P.D.; SAVCHENKO-BEL'SKIY, A.A.;
        ROZHKOVA, T.D., redaktor; TULUNIN, B.N., redaktor; BALLOD, A.I.,
        tekhnicheskiy redaktor

        [Growing shelterbelts; techniques and work organization] Vyrashchiva-
        nie polezashchitnykh lesnykh polos; tekhnika i organizatsiia rabot.
        Moskva, Gos. izd-vo sel'khoz.lit-ry, 1957. 132 p.   (MLRA 10:8)
            (Windbreaks, shelterbelts, etc.)

ACC NR: AT6022359   SOURCE CODE: UR/0000/66/000/000/0069/0076

AUTHOR: Gorokhov, V. A.; Koshelyayev, G. V.; Tulunkin, G. P.

ORG: none

TITLE: Photosensitive semiconductor capacitors (photovaricaps)

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966.
Sektsiya poluprovodnikovykh priborov. Doklady. Moscow, 1966, 69-76

TOPIC TAGS: photosensitivity, electronically variable capacitor, varicap,
Semiconductor device

ABSTRACT: Several uses of semiconductor photosensitive capacitors, photovaricaps, for
amplification of weak photocurrents are given. The use of photovaricaps in a circuit
that indicates shifts of weak light rays and a switching circuit triggered by light is
also given. Two types of photoamplifiers are discussed; in both of them temperature
changes of the photovaricap capacitance are eliminated by interrupting the light beam
that is amplified. The first type has a low interruption frequency (20 cps); it uses
FDK-1 photovaricaps made from gallium arsenide and is capable of amplifying photo-
currents of 5×10^{-12} a with a good signal-to-noise ratio. The second type has a high
interruption frequency (2 kc); it also uses FDK-1 photovaricaps and is capable of
amplifying photocurrents of 2×10^{-11}A with a signal-to-noise ratio of 10. The operat-
ing thresholds for either state (on and off) of the light-triggered switching circuit
are equal to 0.4×10^{-3}lm; the circuit uses FDK-1 photovaricaps, and germanium and

Card 1/2

ACC NR: AT6022359

silicon photodiodes.   Orig. art. has: 5 figures.

SUB CODE: 09/   SUBM DATE: 05Apr66/ ORIG REF: 006/ OTH REF: 004

Card   2/2

L 15435-63   EWP(j)/EPF(c)/EWT(m)/BDS   Pc-4/Pr-4   DE/RM/WW
ACCESSION NR: AP3005446   S/0204/63/003/004/0494/0497

AUTHORS: Shuykin, N. I.; Tulunova, Ye. D.; Ostapenko, E. G.

TITLE: Separation of methylcyclopentadiene from the products of
catalytic dehydration of methylcyclopentene

SOURCE: Neftekhimiya, v. 3, no. 4, 1963, 494-497

TOPIC TAGS: methylcyclopentadiene separation, methylcyclopentene
dehydration,   methylcyclopentene, methylcyclopentadiene,
methylchlorocyclopentane, metallic sodium, adsorption chromatography

ABSTRACT: Authors attempted to find a new way of synthesizing
methylcyclopentadiene and separating it from a mixture of other
hydrocarbons. The synthesis of methylcyclopentadiene was carried out
through a stepwise chlorination of methylcyclopentane fraction and a
catalytic dehydrochlorination of the formed methylchlorocyclopentanes
to methylcyclopentenes which are dehydrated to methylcyclopentadiene
in the presence of catalytic oxides. Two methods of separation of me-
thylcyclopentadiene from the hydrocarbon mixtures were developed: one

Card 1/2 *[NOTE. Wherever appearing, "dehydration" should read
dehydrogenation]

L 15485-63
ACCESSION NR: AP3005446

consists in the reaction of the catalyzed mixture with metallic
sodium, forming sodium methylcyclopentadienyl which is decomposed in
water. The yield of methylcyclopentadiene is 91-92% with a purity of
94-96%. The impurity in the above product is cyclopentadiene. The
second method of separation consists in the dimerization of the cat-
alyzed mixture at 68C and atmospheric pressure for a period of 14
hours. The yield of the dimer is 97%. Depolymerization takes place
by gradually heating it from 175 to 260C. The yield obtained by this
method is 99% of methylcyclopentadiene with a purity of 92%. The
quantitative determination of methylcyclopentadiene found in the
catalytic dehydration of methylcyclopentene mixtures is made by
adsorption chromatography. Orig. art. has: 1 formula and 2 tables.

ASSOCIATION: Institut organicheskoy khimii AN SSSR im. N. D.
Zelinskogo (Institute of organic chemistry, AN SSSR)

SUBMITTED: 27Mar63   DATE ACQ: 06Sep63   ENCL: 00

SUB CODE: CH   NO REF SOV: 006   OTHER: 015

Card 2/2

TULUPIY, G.G. [Tulupii, H.H.]

Turkish hazel in the "Sofiivka" Arboretum. Trudy Bot. sada AN
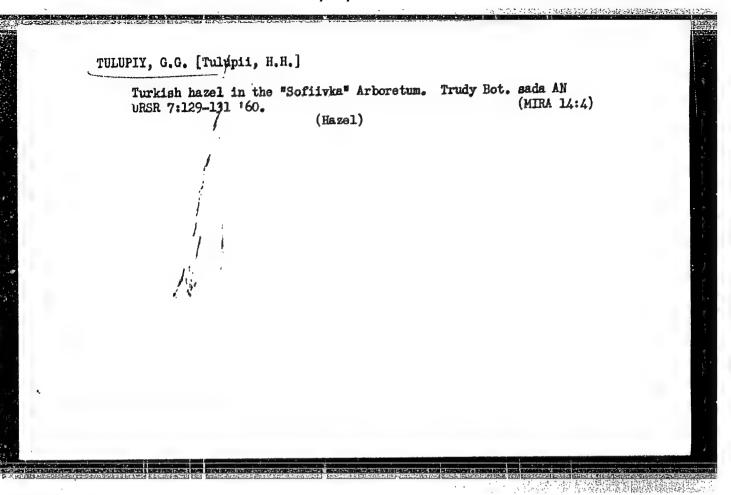URSR 7:129-131 '60.   (MIRA 14:4)
                              (Hazel)

KRIVUL'KO, Densi Stepanovich[Kryvul'ko, D.S.]; REVA, Mikhail
Lukich; TULUPIY, Grigoriy Grigor'yevich [Tulupii, H.H.];
KONDRATIUK, Ye.M., kand. biol. nauk, otv. red.; KOVAL', V.A.,
red. izd-va; KADASHEVICH, O.A., [Kadashevych, O.A.], tekhn.
red.

["Sofievka" Arboretum] Dendrologichnyi park "Sofiivka." Kyiv,
Vyd-vo Akad. nauk URSR, 1962. 81 p.   (MIRA 15:7)
                    (Uman'—Arboretums)

FEDORENKO, N.; TULUPNIKOV, A.

Economic efficiency of the chemicalization of stockbreeding.
Vop. ekon. no.1:66-73 Ja '64.   (MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Fedorenko). 2. Chlen-
korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk im. Lenina (for Tulupnikov).

GORDEYEV, G.S., prof.; YAKUSHKIN, D.I.. Prinimali uchastiye: GORSKAYA, N.V.;
GRANOVSKAYA, A.Ye.; YEVSTIGNEYEVA, Yu.G.; KRYLOV, M.V.; LEYKIN, D.I.;
MAKHOVETSKIY, V.B.; MEYERDORF, A.L.; NAZARENKO, V.I.; NICHIPORUK,
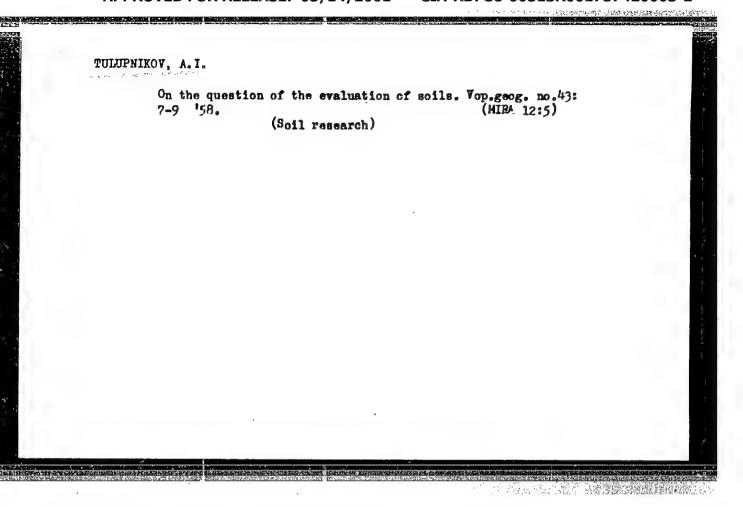O.K.; PAVLOV, L.I.; RUMYANTSEVA, N.V.; SOSENSKIY, I.I.; CHERNEVSKIY,
Yu.V., TULUPNIKOV, A.I., red.; SOLOV'YEV, A.V., prof., red.;
RAKITINA, Ye.D., red.; ZUBRILINA, Z.P., tekhn.red.

[Agriculture in capitalist countries; a statistical manual] Sel'skoe
khoziaistvo kapitalisticheskikh stran; statisitcheskii sbornik.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 247 p.   (MIRA 12:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
sel'skogo khozyaystva. 2. Otdel nauchnoy informatsii po ekonomike i
organizatsii sel'skogo khozyaystva zarubezhnykh stran Vsesoyuznogo
nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva
(for all except Tulupnikov, Solov'yev, Rakitina, Zubrilina). 3.
Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki
sel'skogo khozyaystva (for Tulupnikov). 4. Zamestitel' direktora
Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo
khozyaystva (for Solov'yev).
(Agriculture--Statistics)

TULUPNIKOV, A.I.

On the question of the evaluation of soils. Vop.geog. no.43:
7-9 '58.   (MIRA 12:5)
               (Soil research)

TULUPNIKOV, A.: BATOVA, N.

"Principles and methods of preparing scientifically tested agricultural systems based on zones"

Sbornik. Rada Zemedelska Ekonomika. Praha, Czechoslovakia. Vol. 32, no. 1, Jan 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

TULUPNIKOV, A.I., Prinimali uchastiye: BAKULIN, I.I.; VIKHLYAYEV, A.P.;
    DUBOROV, N.T.; KABANOV, P.N.; PIS'MENNYY, I.G.; POPOV, N.I.;
    SOLOV'YEV, A.V., prof., doktor ekon.nauk, retsenzent; MAKAROV, N.P.,
    prof., doktor ekon.nauk, retsenzent; GORIACHKIN, M.I., kand.nauk,
    retsenzent; OKHAPKIN, K.A., kand.nauk, retsenzent; RUSAKOV, G.K.,
    kand.nauk, retsenzent; MURATOV, D.G., kand.nauk, retsenzent; CHERE-
    MUSHKIN, S.D., kand.nauk, retsenzent; TOLOV, V.V., retsenzent.

[Economic basis for agricultural administration] Voprosy ekonomi-
cheskogo obosnovaniia sistem vedeniia sel'skogo khoziaistva. Moskva,
1960. 275 p.   (MIRA 13:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledovatel'skiy insti-
tut ekonomiki sel'skogo khozyaystva (for Bakulin, Vikhlyayev, Duborov,
Kabanov, Pis'mennyy, Popov.)
                    (Farm management)

TULIPNIKOV, A. I.

"The Rational Organization of Agricultural Enterprises in the USSR."

repott presented at ECE Ad Hoc Meeting of Experts on Farm Rationalization,
Geneva, October 20, 1961.

DUPAL, Yaroslav [Dupal, Jaroslav]; GAVLICHEK, Yaromir [Havlicek,
    Jaromir]; STOCHES, Ferdinand [Stoces, Ferdinand]; BARTUNEK,
    Iosif [Bartunek, Josef]; LEVITMAN, Ye.A.[translator];
    TULUPNIKOV, A.I., red.; SUMNIK, Z.A., red.; IL'YUSHENKOVA,
    T.P., tekhn. red.

    [Problems in determining the effectiveness of agricultural
    production in Czechoslovakia]Voprosy opredeleniia effektiv-
    nosti sel'skokhoziaistvennogo proizvodstva v Chekhoslovakii.
    Pod red. A.I.Tulupnikova. Moskva, Gosstatizdat, 1962. 178 p.
    Translated from the Czech.   (MIRA 15:11)
    1. Nauchno-issledovatel'skiy institut narodnokhozyaystvennogo
    planirovaniya pri Gosudarstvennoy planovoy komissii, Chekhoslo-
    vakiya (for Dupal, Gavlichek). 2. Gosudarstvennaya planovaya
    komissiya, Chekhoslovakiya (for Bartunek).
        (Czechoslovakia--Agriculture--Economic aspects)

TULUPNIKOV, L.A.; SOLOV'YEV, A.V.; BATOVA, N.T.; GAVRILOV, V.I., kand.
        ekonom.nauk; SHIMKO, N.I.; POLOVENKO, I.S., kand.ekonom.nauk;
        POTAPOV, Kh.Ye., red.; OVCHINNIKOV, N.G., red.; PONOMAREVA, A.A.,
        tekhn.red.

    [Problems pertaining to long-range planning and systems of
    management on collective and state farms] Voprosy perspektivnogo
    planirovaniia i sistemy vedeniia khoziaistva v kolkhozakh i sovkho-
    zakh. Moskva, Gosplanizdat, 1960.   681 p.

                                                        (MIRA 14:3)
    1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
    sel'skogo khozyaystva. 2. Chlen-korrespondent Vsesoyuznoy akademii
    sel'skokhozyaystvennykh nauk imeni V.I.Lenina; direktor Vsesoyuznogo
    nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva
    (for Tulupnikov). 3. Zamestitel' direktora Vsesoyuznogo nauchno-
    issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for
    Gavrilov), 4. Rukovoditel' otdela Vsesoyuznogo nauchno-issledovatel'-
    skogo instituta ekonomiki sel'skogo khozyaystva (for Polovenko).
        (Collective farms)   (State farms)

MAYEVSKIY, V. (Rostovskaya oblast', g.Krasnyy Sulin); STONIS, V. (Komi
   ASSR, Vorkuta); TULUPOV, A. (Ryazanskaya oblast', Yekshurskaya
   shkola); PLAVIL'SHCHIKOV, N.N., prof., doktor biologicheskikh nauk

   Herald of a young naturalist. IUn. nat. no.12:24-25 D '61.
                                                         (MIRA 15:1)
          (Birds--Behavior) (Ants)

$\mathcal{T}\,\mathcal{U}\,\mathcal{L}\,\mathcal{U}\,\mathcal{P}\,\mathcal{O}\,\mathcal{V},\ \mathcal{A}\,\mathcal{A}.$

ABSTRACT: The authors state that serious difficulties arose & the
           An'shan (China) Metallurgical Combine when an attempt was made
           to use on the 600 continuous-billet mill the design of rollers
           for rotating the work successfully applied at the Magnitogorsk
           Metallurgical Combine (Magnitogorskiy Metallurgicheskiy
           Kombinat). They attribute this failure to the fact that on
           the Chinese mill there was insufficient room to place the mani-
           pulating rolls behind the stand. They describe the solution of
           the difficulty by using hollow rolls rotating about cylinders
           welded to the housing of the stand. The bronze bearings first
           used in the hollow rolls failed rapidly and were replaced by
           fabric ("textolite") ones, developed by An'shan personnel,
           together with Engineers A.A. Tulupov and B.V. Merekin. Details
           of the rolls and bearings and the cooling/lubricating systems
           adopted are given by the authors together with data on dura-
           bilities of the passes, bearings and supporting cylinders for
           angles of rotation of $19^\circ 31'$ and work sections of 250 x 183 and
Card1/2   216 x 132 mm. There are 3 figures.

Manipulating Rolls for Continuous-billet Mills.   130-8-12/20

ASSOCIATION: Magnitogorsk Metallurgical Combine (Magnitogorskiy
              Metallurgicheskiy Kombinat) and An'shan Metallurgical
              Combine (An'shan Metallurgicheskiy Kombinat KNR)

AVAILABLE: Library of Congress.

Card 2/2

TULUPOV, A.A., inzhener; TSUY FUN' [Ts'ui Fun], inzhener.

Beveling rolls for continuous billet rolling mills. Metallurg 2
no.8:30-32 Ag '57.   (MIRA 10:9)

1. Magnitogorskiy metallurgicheskiy kombinat (for Tulupov).
2. An'shan'skiy metallurgicheskiy kombinat, Kitayataya Narodnaya
Respublika (for Ts'ui Fun).
                    (Rolls (Iron mills))

TULUPOV, A.M., red.; TERTYSHNIK, G.A., red.; YASHEN'KINA, Ye.A.,
tekhn.red.

[Sunflower, a valuable industrial crop] Podsolnechnik -
tsennaia tekhnicheskaia kul'tura. Kuibyshev, Kuibyshevskoe
knizhnoe izd-vo, 1961. 41 p.   (MIRA 14:1)
          (Sunflowers)

43379
S/056/62/043/005/044/058
B125/B104

24.6300

AUTHORS: Lazareva, L. Ye., Tulupov, B. A.

TITLE: On a method of investigating the optical anisotropy and the
              shape of the surface of atomic nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,
              no. 5(11), 1962, 1910-1913

TEXT: The method proposed is based on finding the direction $\vec{n}$ from which
charged subbarrier particles are emitted from a nucleus after a photo-
nuclear reaction. $\vec{n}$ is the unit vector of the major axis of deformation
of the nucleus. In the photodisintegration of deformed nuclei there are
two groups of transitions: The one group is associated with the direction
$\vec{n}$ ($\omega \approx \omega_{\parallel}$). The second group of transitions ($\omega \approx \omega_{\perp}$) refers to the two other
axes perpendicular to $\vec{n}$. In the first group of transitions the amplitude
$F(\vec{p},\vec{n})$ of departure of a charged subbarrier particle ($\vec{p}$ is the wave vector
of the departing particle) in the coordinate system linked to the residual
nucleus has sharp maxima at the angles $0°$ and $180°$. The departing
particles in the lab system have the angular distribution $d\sigma/d\Omega \sim \sin^2 \vartheta + \Delta$ (1)

Card 1/3

On a method of investigating...   S/056/62/043/005/044/058
                                               B125/B104

if $\Delta E/E \ll 1$, if the rotational level of a product nucleus is not fixed, if
the photons are not polarized, and if the nuclei are not oriented. ΔE is
the energy of the rotational levels of the residual nuclei, E is the energy
of the departing nuclei, ϑ is the angle between the momenta of the photon
and of the departing particle. Estimates of $\Delta \approx \theta^2_{1/2}$, where $\theta_{1/2}$ is the

half width of the particle angular distribution in the coordinate system
attached to the residual nucleus, resulted in 0.05-0.1. In the frequency
range $\omega \approx \omega_1$ there is no such general relation as (1). The angular
distribution in the region of transitions $\omega \approx \omega_1$ probably has a relatively
flat shape. In this case $\sigma(0)/\sigma(\pi/2) \approx 1$. The angular distribution of the
subbarrier charged photoparticles in the case of oblate axially deformed

nuclei at frequencies of $\omega \approx \omega_1$ has the general form $d\sigma/d\Omega \sim 2 + \sin^2\vartheta + \Delta'$.
In this case $\Delta' \approx 0.05-0.1$. $\omega_{\parallel} < \omega_1$ for oblong nuclei, $\omega_{\parallel} > \omega_1$ for oblate
nuclei. The quadrupole moment can therefore be found from the shape of the
angular distribution of the subbarrier charged photoparticles. The laws
found here apply not only to photonuclear reactions but also, e.g., to the
scattering of high-energy protons through small angles. The basic advantage

Card 2/3

On a method of investigating...

S/056/62/043/005/044/058
B125/B104

of the present method is that it can be applied to nuclei with any spin including I = 0. Moreover, it is not necessary to confine oneself to alpha-active particles; one can vary the energy of the charged particles, and one has one more distinguished direction. There is 1 figure.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of Sciences USSR)

SUBMITTED: June 18, 1962

Card 3/3

LAZAREVA, L.Ye.; TULUPOV, B.A.

A method for studying the optical anisotropy and surface
forms of atomic nuclei. Zhur. eksp. i teor. fiz. 43
no.5:1910-1913 N '62.
(MIRA 15:12)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR.
(Photonuclear reactions)

S/903/62/000/000/038/044
B102/B234

AUTHOR: Tulupov, B. A.

TITLE: Raman scattering of γ-quanta from nuclei
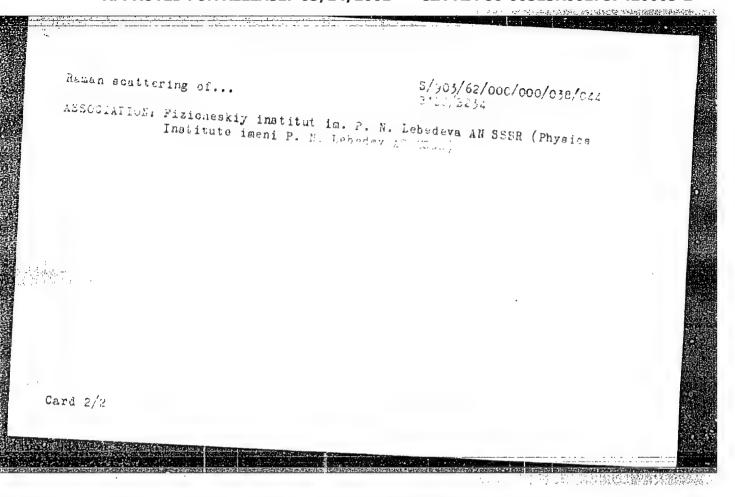
SOURCE: Yadernyye reaktsii pri malykh i srednikh energiyakh; trudy
             Vtoroy Vsesoyuznoy konferentsii, iyul' 1960 g. Ed. by
             A. S. Davydov and others. Moscow, Izd-vo AN SSSR, 1962, 035-009

TEXT: The theory of electric dipole nuclear polarization (Nucl. Phys., 9,
237, 1958) has shown that experiments on elastic photon scattering make it
possible to determine scalar and tensor components of nuclear polarization
in the case of spins >1/2, but since most of the nuclei have the spins 0 or
1/2 these experiments are not suitable here. In order to find appropriate
experiments a theoretical analysis of the interaction between electro-
magnetic field and nucleus was carried out with respect to inelastic photon
scattering accompanied by the excitation of rotational levels. The calcu-
lations showed that an experimental investigation of Raman scattering of
reflect this type . . . determine . . .
polarization of any nuclei. The error due to the approximation made in the
calculation amounts to . . . %.

Raman scattering of...   S/903/62/000/000/038/044

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics
             Institute imeni P. N. Lebedev AN SSSR)

Card 2/2

TULUPOV, L.P., kand.tekhn.nauk; BUYANOV, V.A., inzh.

Compiling the train dispatching plan on an electronic digital computer.
Vest. TSNII MPS 22 no.2:55-59 '63.   (MIRA 16:4)
        (Railraods—Train dispatching) (Electronic digital computers)

VINOGRADOV, A.N.; LIVSHIN, G.L.; OBRAZTSOVA, R.I.; TULUPOV, L.P.;
        Prinimali uchastiye: RAZORENOVA, L.K., inzh.; DUBINKINA,
        L.I., inzh.; PODGORNYKH, A.L., inzh.; LAVRENT'YEV, K.V.,
        retsenzent; MINAKOV, A.D., retsenzent; NESTEROV, Ye.P.,
        retsenzent; STEFANOV, N.Ya., retsenzent; USHAKOV, P.S.,
        retsenzent; KRISHTAL', L.I., red.; KHITROVA, N.A., tekhn.
        red.

        [Calculating machines in accounting, planning and administra-
        tion in railroad transportation] Vychislitel'naia tekhnika v
        uchete, planirovanii i upravlenii na zheleznodorozhnom trans-
        porte. [By] A.N.Vinogradov i dr. Moskva, Transzheldorizdat,
        1963.   407 p.   (MIRA 17:2)

BUYANOV, V.A., assistent; TULUPOV, L.P., nauchnyy sotrudnik

Concerning the question of the automatic control of train movement.
Avtom.telem. i sviaz' 4 no.11:7-8 N '60.   (MIRA 13:11)

1. Belorusskiy institut inzhenerov zheleznodorozhnogo transporta (for
Buyanov). 2. Otdeleniye vychislitel'noy tekhniki Vsesoyuznogo nauchno-
issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva
putey soobshcheniya (for Tulupov).
            (Railroads--Train dispatching)

TULUPOV, L.P., kand.tekhn.nauk

Organization of information transmission on car flows on Hungarian and Polish railroads. Zhel.dor.transp. 44 no.5:85-87 My '62. (MIRA 15:5)
(Hungary.—Railroads—Communication systems)
(Poland—Railroads—Communication systems)

TULUPOV, L.P., kand.tekhn.nauk

Use of calculating machines in classification yards.   Vest.TSNII MPS
21 no.4:54-58 '62.   (MIRA 15:6)
        (Railroads--Hump yards)   (Electronic calculating machines)

TULUPOV, L.P.

TIKHOMIROV, I.G., prof. doktor tekhn. nauk; TULUPOV, L.P.

New textbook ("Organization of train movement in railroad
transport." V.V. Povorozhenko. Reviewed by I. G. Tikhomirov,
L.P. Tulupov. Zhel. dor. transp. 40 no.1:95-96 Ja '58.
(MIRA 11:1)

(Railroads--Management)

TULUPOV, L.P., kand.tekhn.nauk; ANTONOV, Yu.A., inzh.

Concerning the elements of a system for transmitting information
at long distances. Avtom., telem. i sviaz' 5 no.12:12-16 D
'61.   (MIRA 14:12)
      (Railroads--Communication systems) (Railroads--Signaling)

TIKHOMIROV, I.G., prof., doktor tekhn. nauk; BUYANOV, V.A., ass.;
VINNICHENKO, A.V., ass.; MUKHO, P.B.,ass.; NEVZOROV, A.V.,
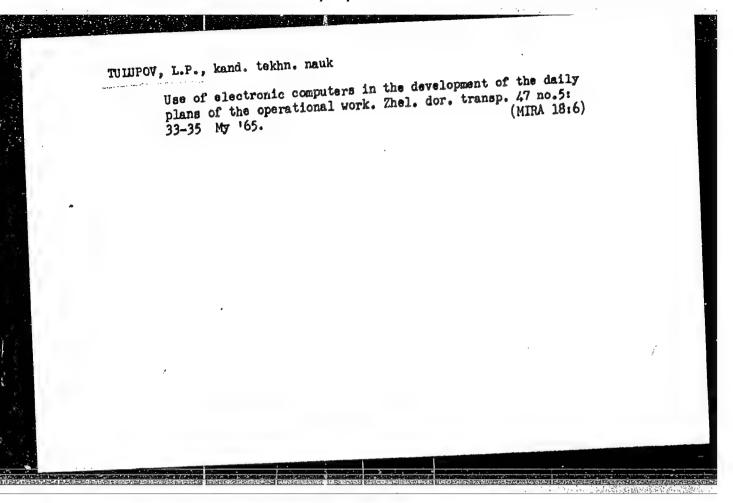dots.; TULUPOV, L.P., dots.; SHUL'ZHENKO, P.A., ass.;
YARMOLENKO, V.Ye.,ass.; Prinimal uchastiye PETROV, A.P.,
prof.; VEREVKINA, N.M., red.; BELEN'KAYA, I.Ye., tekhn.
red.

[Traffic organization in railroad transportation]Organiza-
tsiia dvizheniia na zheleznodorozhnom transporte; konspekt
lektsii. Pod obshchei red. I.G.Tikhomirova. Minsk, Izd-
vo M-va vysshego, srednego spetsial'nogo i professional'-
nogo obrazovaniia BSSR, 1961. 346 p.   (MIRA 15:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov).
                  (Railroads--Traffic)

TULUPOV, L.P., kand. tekhn. nauk

Use of electronic computers in the development of the daily
plans of the operational work. Zhel. dor. transp. 47 no.5:
33-35 My '65.   (MIRA 18:6)

TULUPOV, L.P., kand.tekhn.nauk; DYKANYUK, M.L., inzh.

Use of electronic computers in the planning of the work of loco-
motives. Vest.TSNII MPS 24 no.3:15-38 '65.

(MIRA 18:8)

TULUPOV, L.P., kand.tekhn.nauk

Electronic computers will control the transportation processes.
Elek. i tepl. tiaga no.6:11-13 Je '62.   (MIRA 15:7)
                (Railroads--Electronic equipment)
                    (Railroads--Rolling stook)

TULUPOV, L.P., kand.tekhn.nauk; LIVSHIN, G.L., inzh.-matematik

Use of electronic calculating machines for the prediction of the volume of car flows. Zhel.dor.transp. 43 no.11:51-54 N '61.

(MIRA 14:11)

(Electronic calculating machines)
(Railroads--Management)

TULUPOV, L.P., kand.tekhn.nauk

How to achieve a better organization of dispatching in the operation of railroads. Zhel.dor.transp. 42 no.1:37-40 Ja '60.

(MIRA 13:5)

(Railroads--Management)

TULUPOV, L.P., kand. tekhn. nauk (g. Omsk).

Experience in operating locomotives on long runs. Zhel. dor. transp.
40 no.12:65-69 D '58.   (MIRA 12:3)
                        (Railroads--Locomotives)
                        (Railroads--Management)

TIKHOMIROV, I.G., prof., doktor tekhn. nauk; TULUPOV, L.P., kand. tekhn. nauk; NEVZOROV, A.V., kand. tekhn. nauk; BUYANOV, V.A., inzh.; MUKHO, P.B., inzh.; VINNICHENKO, A.V., inzh.; SHUL'ZHENKO, P.A., inzh.; YARMOLENKO, V.Ye., inzh. (Gomel')

"Organization of railroad traffic" by F.P. Kochnev and others. Reviewed by I.G. Tikhomirov and others. Zhel. dor. transp. 41 no.4:93-96 Ap '59.   (MIRA 12:6)
(Railroads--Traffic)
(Kochnev, F.P.)

SYTSKO, P.A. (g. Orsha); TULUPOV, L.P., kand.tekhn.nauk (g. Orsha)

Experience in perfecting operational technology on railroads.
Zhel.dor.transp. 40 no.10:65-69 O '58.   (MIRA 11:12)

1. Nachal'nik Orshanskogo otdeleniya Belorusskoy dorogi (for
Sytsko).
                    (Railroads--Management)

TULUPOV, L. P.

TULUPOV, L. P. - "A calculation of the plan for making up trains, taking into account the pass-through and remaking capacities of technical stations". Moscow, 1955. Min Railways USSR. Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers imeni I. V. Stalin. (Dissertation for the Degree of Candidate of Technical Sciences).

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow

TULUPOV, L.P., kand.tekhn.nauk; ANDRIANOV, V.P., inzh.; BUYANOV, V.A., inzh.

Organization of remote-controlled transmission of information to the computing points of railroads. Vest.TSNII MPS 20 no.3:57-61 '61.
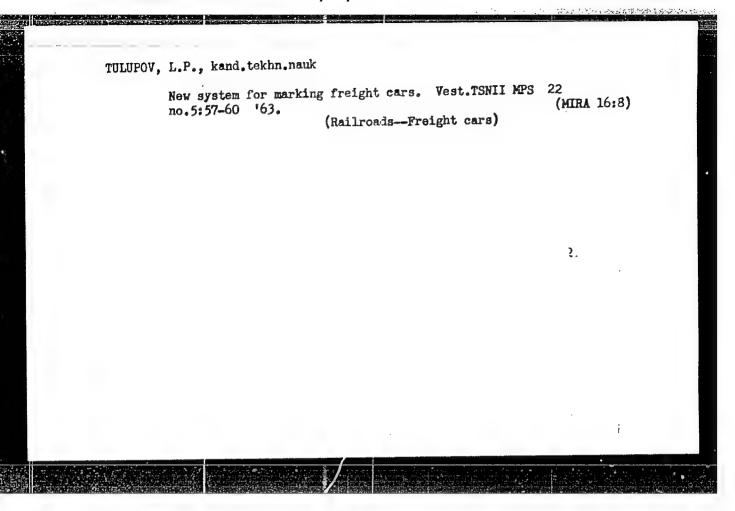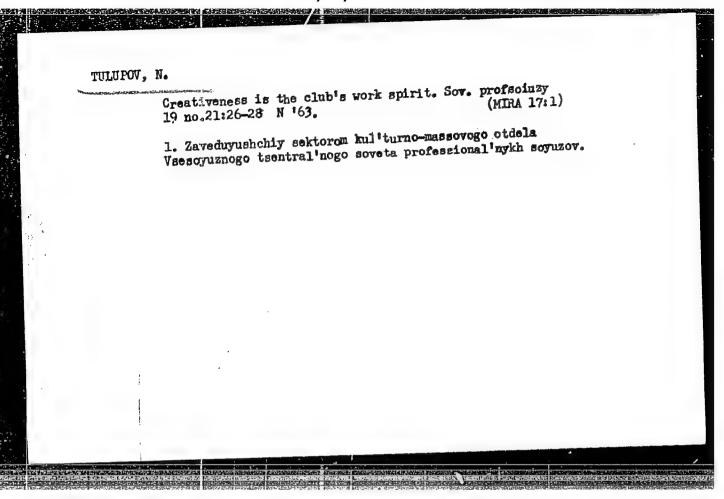(MIRA 14:5)

(Railroads—Electronic equipment)

PETROV, A.P., doktor tekhn. nauk, prof.; TIULUPOV, L.P., kand. tekhn.
nauk; KRYUKOV, N.D., kand. tekhn.nauk; GUNDOBIN, V.N., inzh.;
VASIL'YEV, G.S., kand. tekhn. nauk; GRISHIN, M.S., kand.
tekhn. nauk; MOROZOVA, K.N., inzh.; ROZE, V.A., inzh.; LEVSHIN,
G.L., inzh.; BERNGARD, K.A., doktor tekhn. nauk, prof.;
BIKCHENTAY, M.A., inzh.; BUYANOV, V.A., inzh.; ILOVAYSKIY,
N.D., inzh.; MUKHAMEDOV. G.A., kand. tekhn.nauk; MIROSHNICHENKO,
A.P., inzh.; ANDRIANOV, V.P., inzh.; BUTS, V.D., inzh.; KAZIMOV,
A.A., inzh.; KIREYEV, O.P., inzh.; DYUFUR, S.L., kand. tekhn.
nauk; USTINSKIY, A.A., kand. tekhn. nauk; MIKHAYLOV, S.M., inzh.;
NESTEROV, Ye.P., kand. tekhn. nauk, retsenzent; LIVSHITS, V.N.,
inzh., retsenzent; PREDE, V.Yu., inzh., red.; VOROTNIKOVA, L .F.,
tekhn. red.

[Control of transportation processes using electronic digital
computers] Upravlenie perevozochnym protsessom s primeneniem
elektronnykh tsifrovykh vychislitel'nykh mashin. Pod obshchei
red. A.P.Petrova. Moskva, Transzheldorizdat, 1963. 207 p.
                                            (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Petrov).
   (Railroads--Management) (Electronic digital computers)

TULUPOV, L.P., kand.tekhn.nauk

New system for marking freight cars. Vest.TSNII MPS 22
no.5:57-60 '63.   (MIRA 16:8)
                        (Railroads--Freight cars)

TULUPOV, N.

Creativeness is the club's work spirit. Sov. profsoinzy
19 no.21:26-28 N '63.   (MIRA 17:1)

1. Zaveduyushchiy sektorom kul'turno-massovogo otdela
Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.

TULUPOV, P.I., mashinist

      Some methods for working on the TE3 diesel locomotive. Elek.
      i tepl. tiaga no.6:37-38 Je '62.   (MIRA 15:7)

    1. Depo L'vov-Zapadnyy.
            (Diesel locomotives—Maintenance and repair)

POLJANSKIJ, N.G. [Polyanskiy, N.G.]; TULUPOV, P.Jo. [Tulupov, P.E.]

Methods of determining the thermal resistance of strongly acid cation exchange resins in organic liquids. Chem prum 13 no.10: 550-553 O '63.

1. Novokujbysevska pobocka vedecko-vyzkumneho ustavu syntetickych alkoholu a organickych latek, Novokujbysevsk.

POLYANSKIY, N.G.; TULUPOV, P.Ye.

Thermal stability and catalytic activity of the KU-1 sulfo-
phenolformaldehyde cation exchanger in hydrocarbons. Zhur.
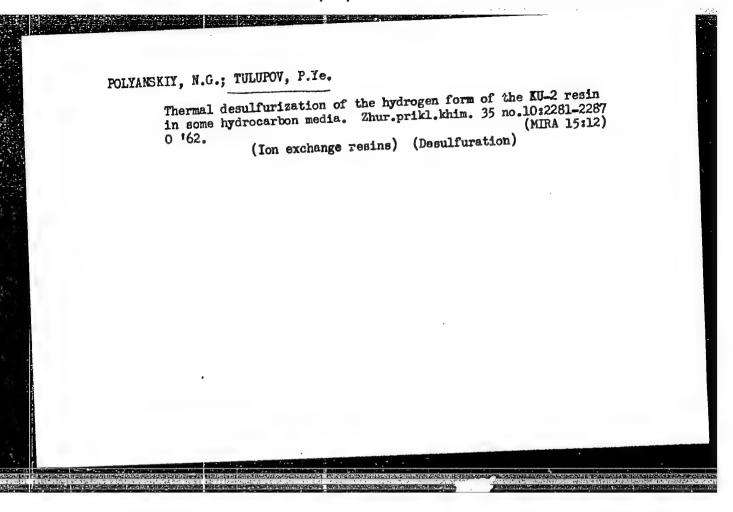prikl. khim. 37 no.12:2686-2692 D '64.

(MIRA 18:3)

POLYANSKIY, N.G.; TULUPOV, P.Ye.; SADOVSKAYA, G.K.; SLOVOKHOTOVA, N.A.

Mechanism of thermal desulfuration of the hydrogen form of ion exchanger KU-2 in hydrocarbon media. Zhur. prikl. khim. 38 no.4: 910-918 Ap '65.   (MIRA 18:6)

1. Novokuybyshevskiy filial nauchno-issledovatel'skogo instituta sinteticheskikh spirtov i organicheskikh produktov i Nauchno-issle-dovatel'skiy fiziko-khimicheskiy institut imeni Karpova, Moskva.

POLYANSKIY, N.G.; TULUPOV, P.Ye.

Thermal desulfurization of the hydrogen form of the KU-2 resin
in some hydrocarbon media.   Zhur.prikl.khim. 35 no.10:2281-2287
                                           (MIRA 15:12)
O '62.

        (Ion exchange resins) (Desulfuration)

POLYANSKIY, N.G.; TULUPOV, P.Ye.; FEDOROV, Ye.F.

Ion exchange resins as catalysts for polymerization of unsaturated hydrocarbons. Kin.i kat. 3 no.1:162 '62.   (MIRA 15:3)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.
(Ion exchange resins) (Polymerization) (Olefins)

POLYANSKIY, N.G.; TULUPOV, P.Ye.

Effect of the moisture content of the cation exchanger KU-2
on its stability and catalytic activity in the presence of
hydrocarbons. Zhur. prikl. khim. 36 no.10:2244-2251 O '63.
(MIRA 17:1)

1. Novokuybyshevskiy filial Nauchno-issledovatel'skogo insti-
tuta sinteticheskikh spirtov i organicheskikh produktov.

TULUPOV, P. Ye.; Prinimala uchastiye STREL'NIKOVA, N. I.

Chromatographic determination of impurities of C_4 hydrocarbons in the methane-hydrogen fraction. Zav. lab. 28 no.12:1430-1431
'62.   (MIRA 16:1)

1. Novokuybyshevskiy filial nauchno-issledovatel'skogo instituta sinteticheskikh spirtov i organicheskikh produktov.

(Hydrocarbons)   (Chromatographic analysis)

TULUPOV, P.Ye.

Heat resistance of various sulfonated cationites in a
medium of tertiary amylenes. Zhur.fiz.khim. 39
no.11:2708-2713 N '65.   (MIRA 18:12)

1. Nauchno-issledovatel'skiy institut sinteticheskikh
spirtov i organicheskikh produktov, Novokuybyshevskiy
filial.

NIKOLAYEV, Lev Aleksandrovich; TULUPOV, Vladimir Alekseyevich;
    Prinimal uchastiye LUNIN, M.A., dots.; ALAVERDOV, Ya.G.,
    red.; STUKOVNIN, N.D., red.

    [Physical chemistry] Fizicheskaia khimiia. Moskva, Vys-
    shaia shkola, 1964. 440 p.   (MIRA 17:9)

TULUPOV, V.A.

USSR/Chemistry - Plastics   FD-1206

Card 1/1   Pub. 129-9/19

Author   : Shuykin, N. I.; Tulupov, V. A.

Title   : The behavior of the geometric isomers of piperylene to ultraviolet
                 illumination

Periodical   : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No. 5., 91-95,
                 Aug 1954

Abstract   : Established the fact that the cis- and trans-isomers of piperylene
                 can be converted from one to the other under the action of ultra-
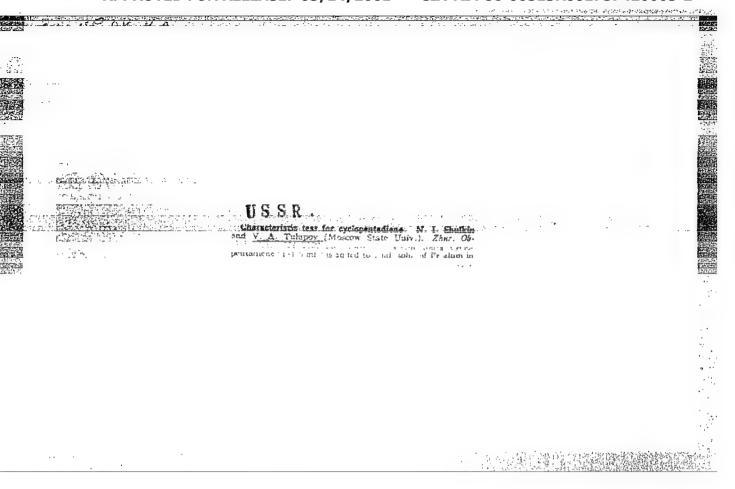   violet light. Also established the approximate composition of the
                 equilibrium mixture. Demonstrated the effect of powdered silver in
                 this conversion. Fifteen references (two USSR).

Institution   : Chair of Petroleum Chemistry

Submitted   : March 25, 1954

USSR

Characteristic test for cyclopentadiene. N. I. Shuikin and V. A. Tulupov (Moscow State Univ.). Zhur. Ob-pentadiene (5-10 ml.) is added to . ml. soln. of Pd alum in

...olution of PMA". The activation energy is also, at extent, cal./mole. The reaction mechanism is discussed and it is suggested that the cyclization is initiated by a metal... atom of the radical form, the odd electron being located at either the α- or β-position of the C-chain...

Synthesis of primary alcohols. N. I. Shulkin and V. A. Tulupov. Vestnik Moskov. Univ. 10, No. 12, Ser. Fiz.-Mat. i Estestven. Nauk No. 8, 93-4 (1955) — The monomeric CH₂O necessary for good yields of primary alcs. in the reaction with RMgX (cf Ziegler, C.A. 15, 3080) is conveniently generated in a glass vessel with a wide sidearm which leads into the reaction flask, the vessel and the sidearm wound with an electric heater with ... yields are obtained by use of but 1.3 moles paraformaldehyde per mole of RMgX
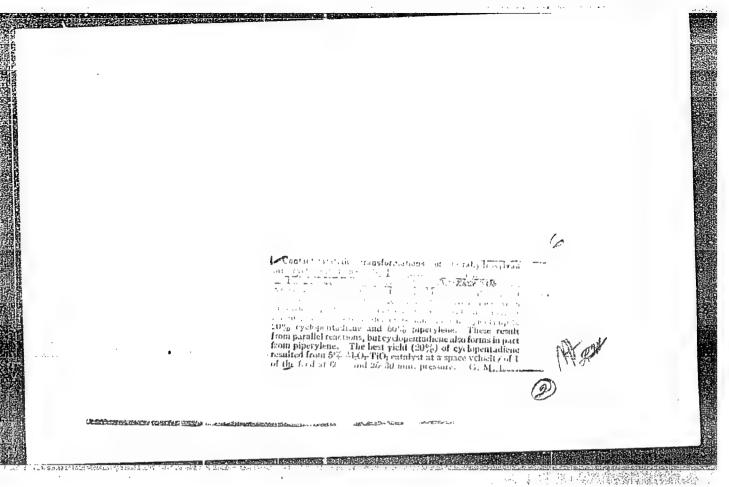
G. M. Kosolapoff

TULUPOV, V. A.

SHUYKIN,N.I.; TULUPOV,V.A.; BEL'SKIY,I.F.

On the hydration of the furan ring.   Zhur.ob.khim.25 no.6:1175-
1178 Je'55.   (MLRA 8:12)

1. Moskovskiy Gosudarstvennyy universitet
                (Furan) (Hydration)

Contact catalytic transformations of ... catalytically active ...

... cyclopentadiene and 60% piperylene. These result from parallel reactions, but cyclopentadiene also forms in part from piperylene. The best yield (20%) of cyclopentadiene resulted from 5% Al_2O_3-TiO_2 catalyst at a space velocity of 1 of the feed at ... and 25-30 mm. pressure.   G. M. L.

Tulupov, V. A.

USSR/ Chemistry - Hydrocarbon conversion

Card 1/1   Pub. 22 - 32/60

Authors   :   Shuykin, N. I., Memb. Corresp. of Acad. of Sc., USSR.; and Tulupov, V. A.

Title   :   The kinetics of piperylene conversion into cyclopentadiene

Periodical :   Dok. AN SSSR   100/4, 731-733, Feb 1, 1955

Abstract   :   The kinetics of C_5H_8 conversion into C_5H_6 was investigated to determine
the nature of the C_5H_8 cyclization process. It was established that the
yield of C_5H_6 at temperatures of 600° and pressures of 30 mm depends
upon the presence and nature of he catalyst and that the cyclization
process is quite complicated leading to the formation of pentenes,
pentanes and gases (in addition to C_5H_6), which are formed as result of
cracking of the basic C_5H_8 and probably also as result of secondary con-
version of the pentanes and pentenes. The conversion reaction was found
to be catalytic and the activation energy was estimated at 59105 cal/mol.
Three references: 2 USSR and 1 English (1948 and 1950). Table.

Institution :   The M. V. Lomonosov State Universtity, Moscow

Submitted   :   September 8, 1954

Name: TULUPOV, V. A.

Dissertation: Study of methods for a catalytic synthesis of cyclopentadiene

Degree: Cand Chem Sci

Affiliation: Min Higher Education USSR, Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov

Defense Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 51, 1956

SHUYKIN, N.I.; TULUPOV, V.A.

Possible formation of cyclopentadiene from heterocyclic compounds
with five carbon atoms in a molecule. Izv.AN SSSR Otd.khim.nauk
no.2:213-219 F '56.   (MLRA 9:7)

1.Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
            (Cyclopentadiene)

TULUPOV, V. A.

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry. B-9
        Catalysis

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11293

Author   : Shuykin N.I., Tulupov V.A.
Inst   : Moscow University
Title   : On Catalytic Hydrogenation of Pyridine

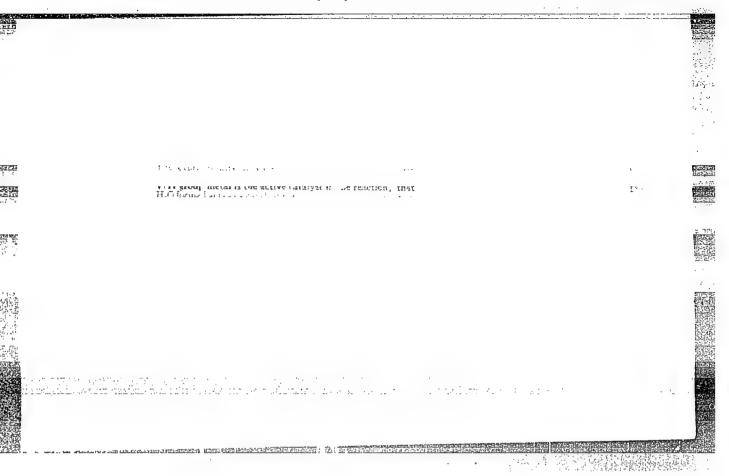Orig Pub : Vestn. Mosk. un-ta, 1956, No 3, 73-79

Abstract : A study was made of hydrogenation of pyridine under flow conditions at space velocity 0.1 hour^{-1} on skeleton Ni-catalyst (prepared from an alloy 73% Al + 27% Ni), having an excess H_2. It is shown that besides piperidine there are formed 1-aminopentane, pyrrole, alpha-, beta- and gamma-picoline and alpha- aminopyridine. There is proposed a mechanism of formation of the reaction by-products over the groups CH_2, CH_3^+, NH_2^0, $C_5H_4N^+$ and H atoms.

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and the affiliated. MGU, GKG для mmo FYTTT TTL да   /   /

The group metal is the active catalyst in the reduction, that
H_2 forms

76-32-3-42/43

AUTHOR: Tulupov, V. A.

TITLE: The Kinetics of Hydration of Cyclopentane With the Mn^{+2} Ion as a Catalyst (Kinetika gidrirovaniya tsiklopentena s ionom Mn^{+2} v kachestve katalizatora)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 3, pp.727-729 (USSR)

ABSTRACT: In connection with a paper that investigated catalytic reactions with unsaturated compounds, the reaction mentioned in the title is studied in the paper under review. Manganese stearate, dissolved in paraffin oil, is used as a catalyst. Data of the preparation of the initial substances are given and from a drawing, it is seen that the arrangement used possesses a reaction vessel, which is located in a thermostat, and which is shaken during the experiment. The hydrogen is led through the usual purifying vessels and measured with mercury in a buret at fixed temperature. The experiments were performed at 25, 30, 36, 38 and 39°C. In the investigations during the reaction, the formation of a manganese complex was

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The Kinetics of Hydration of Cyclopentene With the Me^{+2} Ion as a Catalyst

charcoal which decomposed in the distillation of the reaction product. The obtained results are graphically represented from which is to be seen that the nature of the reaction process does not change with a modification of concentration of the catalyst. Furthermore, the reaction does not take place at the surface of the vessel, but homogeneously in the interior. The shape of the isotherm lines of the depth of transformation does not change with temperature. Finally it is stated that the performed reactions take place with an activation energy of the order of magnitude of the energy of heterogeneous catalytic hydrogenations of unsaturated compounds. The value of the activation energy changes with the concentration of catalyst, values for this being given. The author thanks Professor L. A. Nikolayev. There are 5 figures and 4 references, 3 of which are Soviet.

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut, Moskva
(Moscow, All-Union Correspondence Machine-Construction Institute)

SUBMITTED: September 29, 1957

AVAILABLE: Library of Congress

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STRUGATSKIY, Mikhail Konstantinovich; NADEINSKIY, Boris Pavlovich;
    TULUPOV, V.A., red.; AVRAMENKO, Ye.I., red.izd-va; GOROKHOVA,S.S.,
    tekhn. red.

[General chemistry] Obshchaia khimiia. Izd.3., perer.i dop. Mo-
skva, Gos.izd-vo "Vysshaia shkola," 1961. 415 p.   (MIRA 14:12)
                    (Chemistry)
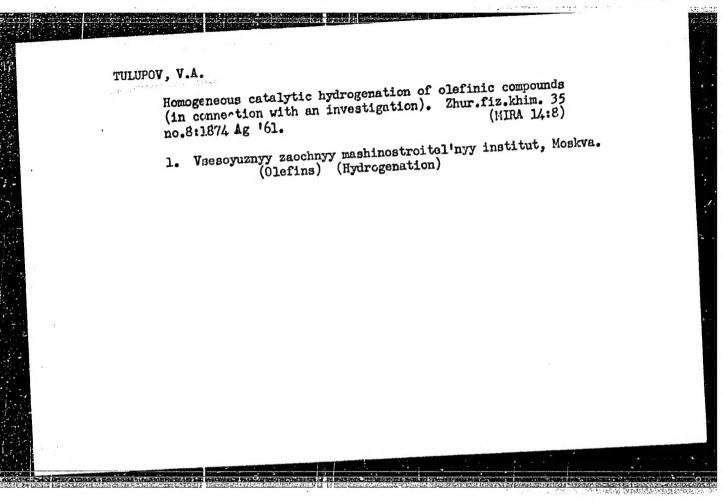
TARASOVA, Ye.M. [deceased]; TULUPOV, V.A.

Reduction of acetylcyclohexane by the Kishner reaction. Zhur.ob. khim. 31 no.6:1936-1941 Je '61. (MIRA 14:6)'

1. Moskovskiy gosudarstvennyy universitet i Vsesoyuznyy zaochnyy mashinostroitel'nyy institut.
(Cyclohexane)

TULUPOV, V.A.

Homogeneous catalytic hydrogenation of olefinic compounds
(in connection with an investigation). Zhur.fiz.khim. 35
no.8:1874 Ag '61.   (MIRA 14:8)

1.   Vsesoyuznyy zaochnyy mashinostroitel'nyy institut, Moskva.
             (Olefins) (Hydrogenation)

TULUPOV, V.A.

Homogeneous catalytic hydrogenation. Part 1: Kinetics of
cyclohexene hydrogenation in the presence of Cr (III). Zhur.
fiz.khim. 36 no.8:1617-1623 Ag '62.   (MIRA 15:8)

1. Vsesoyuznyy zaochnyy mashinostroitel'nyy institut.
           (Cyclohexene)   (Hydrogenation)
           (Chemical reaction, Rate of)

S/076/63/037/002/004/018
B101/B186

AUTHOR: Tulupov, V. A. (Moscow)

TITLE: A new equation of state for gases

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 2, 1963, 284-289

TEXT: An equation of state is derived for gases based on the assumption that a change of the state of aggregation is accompanied by a change of composition in molecular complexes which contain more particles in liquid and solid state than in gaseous state. The transition gas – liquid – solid is thus connected with a reduction in the number of single particles and in the number of complexes made up of few particles; also with an increase in the number of complexes comprising many particles. $\sum \Gamma_i X_i x_i(T) = RT$ is written, where X_i are the generalized forces acting upon the coordinates x_i. In the case of a gas, the forces acting in the system are the pressure p and the interaction forces X_{11} between single particles, X_{1j} between individual particles and complexes of j particles, X_{ii} between complexes

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A new equation of state ...

with equal and X_{ij} between those with unequal number of particles. A matrix is set up for the total of these forces and, since $X_{ij} = X_{ji}$, the sum of the forces is set equal to the total of the diagonal elements. For the. internal forces $X_{11} = a_{11}^0 e^{\lambda/RT}/v^2$, ..., $X_{jj} = a_{jj}^0 e^{\lambda/RT}/v^{2j}$ hold, where $a_{11}^0, ..., a_{jj}^0$ are coefficients of proportionality. The final result obtained is: $(p + \sum_{jj} a_{jj}/v^{2j} + \sum_{ij} a_{jj}/v^{i+j})(v - v_0) = RT$, where $a_{jj} = a_{jj}^0 e^{\lambda/RT}$, $a_{ij} = a_{ij}^0 e^{\lambda/RT}$. The difference between this equation and the equation of Van der Waals (for which j = 1) is that with j = 1 only two metastable regions exist on the p,v curve, whereas the equation suggested allows for a variety of metastable states. It is proved that transition from one stable state into another can take place either by passing through one metastable state any number of times, or by passing through a plurality of metastable states. With a multiplicity j of the complexes, the

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